

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 50.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001720**Date Inspected:** 29-Jan-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Jiangyin**Location:** Chang xing Dao, Shanghai**Quality Control Contact:** Mr. Don walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** See below**Bid Item:** 77, 78, 79**Lot No:** B # 204**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE II coating inspector, Mr. Baskar Govindarajan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE II coating inspector observed the following:

1. An inspection was requested for the OBG segment, 8CW, internal ceiling surfaces from weld seam to p.p 69 to p.p70 to p.p 71 for the blasting visual inspection and Residual chlorides test, vide request no. 2580. This Caltrans QA inspector observed, ABF inspectors Mr. Sun, Mr. wei and Mr. Shu wen performing visual inspection of above mentioned areas. The blasting work found rejected by ABF Inspectors due to ZPMC not blasted according to SSPC SP 10 in some of the areas especially corners. The same segment was reoffered again vide notification no. 2581 and found accepted after attending marked areas for Reblasting. The surface profile observed by coarse grain method is in the range of 64 to 80 microns. Also Residual chloride test was conducted by ZPMC Personnels and the result found to be 20 us/cm which is acceptable as per contract documents. The ambient conditions found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

2. An inspection was requested for OBG Counter weight CW 32 and CW 34 for finish coat application inspection vide notification no. 2582/2586. This Caltrans inspector observed, ABF Inspector Mr. Shi stone and Mr. Sun witnessing DFT inspection performed by ZPMC personnels. This QA Inspectors found that, ABF Inspector Mr. Shi stone pointed out to ZPMC QC for improper curing of Interzink 52 which was applied in corner areas. This counterweight was not accepted for Final coat due to this reason. ZPMC has to resubmit the notification after

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## SOURCE INSPECTION REPORT

( Continued Page 2 of 2 )

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proper curing of Interzinc 52. Ambient conditions were monitored and found to be within the parameters of contract documents.

3. An inspection was requested for surface preparation inspection for OBG external corner unit CW embedded surface between 5AW to 5CW at OBG assembly yard, request no. 2585. This Caltrans inspector observed, ABF Inspector Mr. Wei, performing Blasting inspection of the specified areas. The same was found accepted by ABF after ZPMC attended the marked points for grinding and reblasting except bottom slope due to rectification weld defects and grinding. Surface profile on the blasted areas measured by ZPMC by coarse grain method found to be 70 to 82 microns which is acceptable as per contract documents. Ambient conditions were monitored and found to be 5.1 deg. above dew point and the relative humidity found to be 41.4% over the specified area which is found to be within the parameters of contract documents. International protective coating technical service representative Mr. Peng Zi li was in attendance during the inspection process.

4. An inspection was requested for Degreasing and cleaning of OBG segment 7EW at OBG assembly yard, request no. 2587. This Caltrans inspector observed, the same was found rejected by ABF after ZPMC QC (Fabrication) informed ABF fabrication that CWR +Welding repairs not complete.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

No applicable conversations

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mr. Skyler Guest (15000422360), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar,Govindarajan	Quality Assurance Inspector
<b>Reviewed By:</b>	Clifford,William	QA Reviewer

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